

Product datasheet for TP307264

Glycerol kinase (GK) (NM_203391) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glycerol kinase (GK), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207264 protein sequence Red=Cloning site Green=Tags(s)

MAASKKAVLGPLVGAVDQGTSSTRFLVFNSKTAELLSHHQVEIKQEFREGWVEQDPKEILHSVYECIEK
TCEKLGQLKIDISNIKAIGVSNQRETTVWWDKITGEPLYNAVWLDLRTQSTVESLSKRITGNNNFVKS
TGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKRALFGTIDSWLIWLSLTGGVNGGVHCTDVTNASRTMLFNI
HSLEWDKQLCEFFGIPMEILPNVRSSEIYGLMKISHSVKAGALEGVPISGCLGDQSAALVGQMCFQIGQ
AKNTYGTGCFLLCNTGHKCVFSDHGLLTTVAYKLRDVKPVVYALEGSVAIAGAVIRWLRDNLGIIKTSEE
IEKLAKEVGTSGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTRREILDAMNRD
CGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPSPMPETTALGAAMAAGAAEGVGVWSLEPEDLSAVTM
ERFEPQINAAEESIIRSTWKKAVMKSMGWVTTQSPESGIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	58 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_976325](#)

Locus ID: 2710

UniProt ID: [P32189](#), [B4DH54](#)

RefSeq Size: 4503

Cytogenetics: Xp21.2

RefSeq ORF: 1590

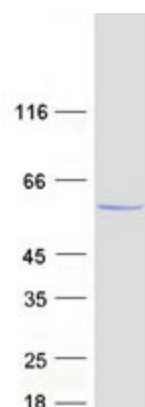
Synonyms: GK1; GKD

Summary: The protein encoded by this gene belongs to the FGGY kinase family. This protein is a key enzyme in the regulation of glycerol uptake and metabolism. It catalyzes the phosphorylation of glycerol by ATP, yielding ADP and glycerol-3-phosphate. Mutations in this gene are associated with glycerol kinase deficiency (GKD). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]

Protein Families: Druggable Genome

Protein Pathways: Glycerolipid metabolism, Metabolic pathways, PPAR signaling pathway

Product images:



Coomassie blue staining of purified GK protein (Cat# TP307264). The protein was produced from HEK293T cells transfected with GK cDNA clone (Cat# [RC207264]) using MegaTran 2.0 (Cat# [TT210002]).